



Facility Familiarization and Interaction Under an M&I Contract

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- ◆ Criticality Safety Engineers Become Familiar with the PFP Facility and Staff
- ◆ During Rotational Assignment as Building Support Criticality Safety Engineer
- ◆ Through Interactive Analytical Approach in Establishing Facility Criticality Safety Evaluation Reports (CSERs)

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- ◆ Building Support Criticality Engineers are required to be qualified for duty at PFP
- ◆ Qualification is documented on a qualification card and includes:
 - Required Reading of basis documents and administrative procedures
 - Familiarization and walkdown of key systems and operations
 - Practical experience in writing Criticality Prevention Specifications (CPSs) and postings, responding to Nonconformances, and performing inspections
 - Oral board with facility staff

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- ◆ Building Support Criticality Engineers interact with the facility by:
 - Reviewing operating procedures
 - Assisting in the preparation of CPSs and Postings
 - Responding to Nonconformances
 - Monthly inspections of operating areas
 - Participating in operator training and drills
 - Answering questions from operators and supervisors
 - Reviewing design changes
 - Monthly assessment
- ◆ Rotational assignments are normally for a one year period. Incumbent Criticality Engineers then perform analyses for PFP

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- ◆ Periodic interaction of the criticality safety analyst with the facility is contractually required during the preparation of a Criticality Safety Evaluation Report (CSER). As a minimum, these include:
 - Kick-off meeting with facility supervisors, engineers, and operators to refine scope and proposed controls
 - Job walk-down following the Kick-off meeting
 - Hazards analysis with facility supervisors, engineers, and operators to determine credible upset conditions and possible barriers
 - In process review with facility supervisors, engineers, and operators to review preliminary CSER draft
 - Walkdown of operation at end of analysis
- ◆ System of familiarizing Criticality Safety Engineers with PFP has resulted in more realistic analytical approaches and usability. Added cost and schedule benefits are becoming apparent.

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◆ **Questions?**